

Form PTO-1449 (modified)

APR 16 2002

Attorney Docket N.  
ARC920010115US1Serial N.  
10/090,589LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT(S)' INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

Applicant(s): Charles T. Rettner et al.

Filing Date:  
02/28/02Group Art Unit:  
Unknown 2655

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U. S. Patent Documents

APR 22 2002

Examiner Initials	Document No.	Date	Name	Technology Center 2600		Filing Date
				Class	Subclass	
S.N.	5,555,255	9/10/96	Kock et al.	<del>372</del>	<del>06</del>	11/24/93
	5,568,504	10/22/96	Kock et al.	<del>372</del>	<del>06</del>	11/24/93
	5,583,727	12/10/96	Parkin	<del>380</del>	<del>113</del>	05/15/95
	5,625,617	04/29/97	Hopkins et al.	<del>369</del>	<del>121</del>	09/06/95
	5,689,480	11/18/97	Kino	<del>369</del>	<del>14</del>	08/13/96
	5,696,372	12/09/97	Grober et al.	<del>250</del>	<del>246</del>	07/31/96
	5,936,808	08/10/99	Huang et al.	<del>380</del>	<del>106</del>	11/24/97
	5,973,316	10/26/99	Ebbesen et al.	<del>250</del>	<del>246</del>	11/26/97
	5,986,978	11/16/99	Rottmayer et al.	<del>369</del>	<del>10</del>	11/12/98
	6,016,290	11/18/00	Chen et al.	<del>389</del>	<del>15</del>	02/12/99
	6,055,220	04/25/00	Mamin et al.	<del>389</del>	112	03/31/98
S.N.	6,226,149	05/01/01	Dill, Jr. et al.	<del>380</del>	<del>126</del>	12/15/98

Examiner

Date Considered

5-5-05

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## FOREIGN PATENT DOCUMENTS

Technology Center 2000

Examiner Initials	Document No.	Date	Country	Class	Subclass	Translation Yes No
<i>AN</i>	EP -1-008-870-A1	June 14, 2000	Europe	<del>G02B</del>	<del>5/20</del>	Application

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<i>S.N.</i>	H. J. Rosen et al., <i>Thermally-Assisted Magnetic Recording</i> , IBM Technical Disclosure Bulletin, Vol. 40, No.10, October 1997, p. 65.
	H. S. Gill, <i>Data Recording at Ultra High Density</i> , IBM Technical Disclosure Bulletin, Vol. 39, No. 07, July 1996, p. 237.
	W. Wayt Gibbs, <i>Holey Magic</i> , Scientific American, July 1999, p. 40.
	T. Thio et al., <i>Strongly enhanced optical transmission through subwavelength holes in metal films</i> , Physica B, 279, 2000 (Elsevier Science B.V. ), pp. 90-93.
	E. Betzig et al., <i>Near-field magneto-optics and high density data storage</i> , Applied Physics Letters, Vol. 61, No. 2, July 13, 1992, pp. 142-144.
	S. Astilean et al., <i>Light transmission through metallic channels much smaller than the wavelength</i> , Optics Communications, 175, 2000 (Elsevier Science B.V. ), pp. 265-273.
	J. J. M. Ruigrok et al., <i>Disk recording beyond 100 Gb/in.2: Hybrid recording? (Invited)</i> , Journal of Applied Physics, Vol. 87, No. 9, May 1, 2000, pp. 5398-5403.
	T. McDaniel, <i>Magneto-Optical Data Storage</i> , Communications of the ACM, Vol. 43, No. 11, November 2000., pp. 57-63.
<i>S.N.</i>	H. Katayama et al., <i>New Developments in Laser-Assisted Magnetic Recording</i> , IEEE Transactions on Magnetics, Vol. 36, No. 1, January 2000, pp. 195-199.

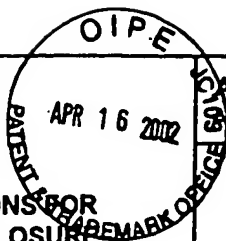
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Examiner Initials	Citation
J.N.	K. E. Johnson et al., <i>Thin-film media- Current and future technology</i> , Technology Center 2600 Research & Development, Vol. 40, No. 5, September 1996, pp. 511-536.
	J. Vuckovic et al., <i>Surface Plasmon Enhanced Light-Emitting Diode</i> , IEEE Journal of Quantum Electronics, Vol. 36, No. 10, October 2000, pp. 1131-1144.
	F. Koyama et al., <i>Surface emitting lasers for optical near-field data storage</i> , SPIE Conf. on Photonics Tech. into the 21st Century, Singapore, December 1999, SPIE Vol. 3899, pp. 344-350.
	S. Shinada et al., <i>Micro-Aperture Surface Emitting Laser for Near Field Optical Data Storage</i> , IEEE, CLEO/pacific rim 1999, ThD4, pp. 618-619.
	S. Gianordoli et al., <i>Optimization of the emission characteristics of light emitting diodes by surface plasmons and surface waveguide modes</i> , Applied Physics Letters, Vol. 77, No. 15, October 9, 2000, pp. 2295-2297.
	H. Sakeda et al., <i>Thermally Assisted Magnetic Recording on Flux-Detectable RE-TM media</i> , IEEE Transactions on Magnetics, Vol. 37, No. 4, July 2001, pp. 1234-1238.
	M. Alex et al., <i>Characteristics of Thermally Assisted Magnetic Recording</i> , IEEE Transactions on Magnetics, Vol. 37, No. 4, July 2001, pp. 1244-1249.
	R. Wannemacher, <i>Plasmon-supported transmission of light through nanometric holes in metallic thin films</i> , Optics Communications, 195, 2001 (Elsevier Science B.V.), pp. 107-118.
J.N.	U. Schroter et al., <i>Surface-plasmon-enhanced transmission through metallic gratings</i> , Physical Review B, Vol. 58, No. 23, December 15, 1998, pp. 15 419-15 421.

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Initials

Citation

A.N.

D. E. Grupp, *Beyond the Bethe Limit: Tunable Enhanced Light Transmission Through a Single Sub-Wavelength Aperture*, Advanced Materials, Vol. 11, No. 10, 1999, pp. 860-862.Thio et al., *Surface-plasmon-enhanced transmission through hole arrays in Cr films*, Optical Society of America, Vol. 16, No. 10, October 1999, pp. 1743-1748.H. A. Bethe, *Theory of Diffraction by Small Holes*, The Physical Review, Second Series, Vol. 66, Nos. 7 & 8, October 1 & 15, 1944, pp. 163-182.U. Durig et al., *Near-field optical-scanning microscopy*, Journal of Applied Physics, Vol. 59, No. 10, May 15, 1986, pp. 3318-3327.T. W. Ebbesen, *Extraordinary optical transmission through sub-wavelength hole arrays*, Nature, Vol. 391, February 12, 1998, pp. 667-669J. A. Porto et al., *Transmission Resonances on Metallic Gratings with Very Narrow Slits*, Physical Review Letters, Vol. 83, No. 14, October 4, 1999, pp. 2845-2848.A. Partovi et al., *High-power laser light source for near-field optics and its application to high-density optical data storage*, Applied Physics Letters, Vol. 75, No. 11, September 13, 1999, pp. 1515-1517.C. Sonnichsen et al., *Launching surface plasmons into nanoholes in metal films*, Applied Physics Letters, Vol. 76, No. 2, January 10, 2000, pp. 140-142.

A.N.

A. V. Shchegrov, *Near-Field Spectral Effects due to Electromagnetic Surface Excitations*, Physical Review Letters, Vol. 85, No. 7, August 14, 2000, pp. 1548-1551.

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Citation

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*S.N.* D. E. Grupp, *Crucial role of metal surface in enhanced transmission through subwavelength apertures*, Applied Physics Letters, Vol. 77, No. 11, September 11, 2000, pp. 1569-1571.

*S.N.* R. Sambles, *More than transparent*, Nature, Vol. 391, February 12, 1998, pp. 641-642.

*S.N.* H. F. Ghaemi, *Surface plasmons enhance optical transmission through subwavelength holes*, Physical Review B, Vol. 58, No. 11, September 15, 1998, pp. 6779-6782.

*S.N.* T. Kim et al., *Control of optical transmission through metals perforated with subwavelength hole arrays*, Optics Letters, Vol. 24, No. 4, February 15, 1999, pp. 256-258.

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PTO/SB/08A (10-01)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/090,589		
		Filing Date	02/28/2002		
		First Named Inventor	Charles T. Rettner et al.		
		Art Unit	<del>2652</del> 2655		
		Examiner Name	Unassigned		
Sheet	1	of	1	Attorney Docket Number	ARC920010115US1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
<i>Sh</i>		US- 5,729,641	03-17-1998	Chandonnet et al.	
<i>Sh</i>		US- 6,408,118	06-18-2002	Ahuja et al.	
<i>Sh</i>		US- 6,614,960	09-02-2003	Berini	
<i>Sh</i>		US- 6,623,874	09-23-2003	Karbe et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

Examiner Signature	<i>Sh-NZ</i>	Date Considered	5-5-05
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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